

Fig. 1

ATGCTCGCGTCGGCGGGCAGCCCTGGCATGGGTGTGCATGTGGGTGCAGCCC
TGGGAGCACTGTGGTTCTGCCTCACAGGAGCCCTGGAGGTCCAGGTCCCTGA
AGACCCAGTGGTGGCAGTGGTGGCACCGATGCCACCCCTGTGCTGCTCCTCT
CCCCTGAGCCTGGCTTCAGCCTGGCACAGCTCAACCTCATCTGGCAGCTGAC
AGATACCAAACAGCTGGTGCACAGCTTGCTGAGGGCCAGGACCAGGGCAG
CGCCTATGCCAACCGCACGGCCCTCTTCCGGACCTGCTGGCACAGGGCAAC
GCATCCCTGAGGCTGCAGCGCGTGCAGCGCTGCCGTCAAGCCTGCAGGTGGC
GCTTCGTGAGCATCCGGGATTTCGGCAGCGCTGCCGTCAAGCCTGCAGGTGGC
CGCTCCCTACTCGAAGCCCAGCATGACCCCTGGAGGCCAACAAAGGACCTGCAG
CCAGGGGACACGGTGACCATCACGTGCTCCAGCTACCAGGGCTACCCCTGAGG
CTGAGGTGTTCTGGCAGGGATGGCAGGGTGTGCCCTGACTGGCAACGTGAC
CACGTGCAGATGGCCAACGAGCAGGAGGGCTTGTGTTGATGTGCACAGCGTCCTG
CGGGTGGTGCTGGGTGCGAATGGCACCTACAGCTGCCTGGCGCAACCCCG
TGCTGCAGCAGGATGCGCACGGCTCTGTCAACCACAGGGCAGCCTATGAC
ATTCCCCCAGAGGCCCTGTGGGTGACCGTGGGGCTGTCTGTCTGTCATTG
CACTGCTGGTGGCCCTGGCTTCTGTGCTGGAGAAAGATCAAACAGAGCTG
TGAGGAGGAGAATGCAGGAGCTGAGGACCAGGATGGGGAGGGAGAAGGCTC
CAAGACAGCCCTGCAGCCTCTGAAACACTCTGACAGCAAAGAAGATGATGG
ACAAGAAATAGCCTGA

Fig. 2

ATGCTCGTCGGCGGGCAGCCCTGGCATGGGTGTGCATGTGGGTGCAGCCC
TGGGAGCACTGTGGTTCTGCCTCACAGGAGCCCTGGAGGTCCAGGTCCCTGA
AGACCCAGTGGTGGCACTGGTGGCACCGATGCCACCCCTGTGCTCCTTCT
CCCCTGAGCCTGGCTTCAGCCTGGCACAGCTAACCTCATCTGGCAGCTGAC
AGATAACAAACAGCTGGTGCACAGCTTGCTGAGGGCCAGGACCAGGGCAG
CGCCTATGCCAACCGCACGGCCCTCTCCCGAACCTGCTGGCACAGGGCAAC
GCATCCCTGAGGCTGCAGCGCGTGCCTGGCGACGAGGGCAGCTTCACCT
GCTTCGTGAGCATCCGGATTTCGGCAGCGCTGCCGTAGCCTGCAGGTGGC
CGCTCCCTACTCGAAGCCCAGCATGACCCCTGGAGCCCCAACAAAGGACCTGCGG
CCAGGGGACACGGTGACCATCACGTGCCCCAGCTACCGGGCTACCTGAGG
CTGAGGTGTTCTGGCAGGATGGCAGGGTGTGCCCTGACTGGCAACGTGAC
CACGTGCAGATGGCCAACGAGCAGGGCTTGTGATGTGCACAGCGTCCTG
CGGGTGGTGCTGGGTGCGAATGGCACCTACAGCTGCCTGGTGCACACCCCG
TGCTGCAGCAGGATGCGCACGGCTCTGTCACCATCACAGGGCAGCCTATGAC
ATTCCCCCCAGAGGCCCTGTGGGTGACCGTGGGGCTGTCTGTCTCATTG
CACTGCTGGTGGCCCTGGCTTGTGCTGGAGAAAGATCAAACAGAGCTG
TGAGGAGGAGAATGCAGGAGCTGAGGACCAGGATGGGGAGGGAGAAGGCTC
CAAGACAGCCCTGCAGCCTCTGAAACACTGTGACAGCAAAGAAGATGATGG
ACAAGAAATAGCCTGA

Fig. 3

MLRRRGSPGMGVHGAALGALWFCLTGALEVQVPEDPVVALVGTDATLCCSFS
PEPGFSLAQLNLIWQLTDKQLVHSFAEGQDQGSAYANRTALFPDLLAQGNASL
RLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDTVT
ITCSSYRGYPEAEVFWQDGQGVPLTGNVTSQMANEQGLFDVHSVLRVVLGAN
GTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEALWVTVGLSVCLIALLVALAFV
CWRKIKQSCEEENAGAEDQDGEGEGSKTALQPLKHSDSKEDDGQEIA

Fig. 4

MLRRRGSPGMGVHGAALGALWFCLTGALEVQVPEDPVVALVGTATLCCSFS
PEPGFSLAQLNLIWQLTDKQLVHSFAEGQDQGSAYANRTALFPDLLAQGNASL
RLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDTVT
ITCPSYRGYYPEAEVFWQDGQGVPLTGNVTTSQMANEQGLFDVHSVLRVVLGAN
GTYSCLVNPVLQQDAHGSVTITGQPMTFPPEALWVTVGLSVCLIALLVALAFV
CWRKIKQSCEEENAGAEDQDGEGEGSKTALQPLKHSDSKEDDGQEIA

Fig. 5A

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hB7-H3	262 [L] ALA F V C - T R K I K Q S C E E N A G E D D O D G E G E G S K T A L Q P L K E S D S K E D D G Q E I A
hB7-H2	266 V A V A I G - V C R D C L O H S Y A G A W A V S P E T - - - - - E L T G V
hB7-H1	251 G [ALT] F I R L R K G M M D V K K C I Q D T N S K K - - - - - Q S D T L E E T
hB7-2	254 V M V F C L I L W K K K P R N S Y K C C T N T M E R E E S - E Q T K K R E K I I P E R S D E A Q R V F K S S C D K S S D T C F 323
hB7-1	256 G I F V I C C L T - Y C F A P C R E R R - R N E R L R R R S - - - - - V R P Y 288

signal peptide ***IgV-like domain***
 MIRR RGSPGMGVHVGAA LWECLTGA LEVQ VPEDPV VALV GTDATL CCSFSPE PGS LAQLN LIWQL DTK QL VHS FAE QD QGSAY
IgC-like domain
 ANRT ALF PDLLA QGN ASLR IQL QVR VRA DEGS F TCF VS IR DFG SAA VSL QVA APY SKPS M TLE PN KDL RPG DT VTI TIT C SSY RGY PEA E VFW
TM

IC
QDGQVPLGNVTTSQMANEQGLEDVHSVLRVVLAGNTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEALWTVGLSVCLIALVALA

Fig. 5B

Fig. 6 A

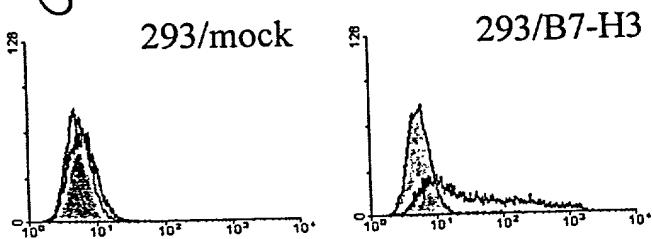


Fig. 6 B

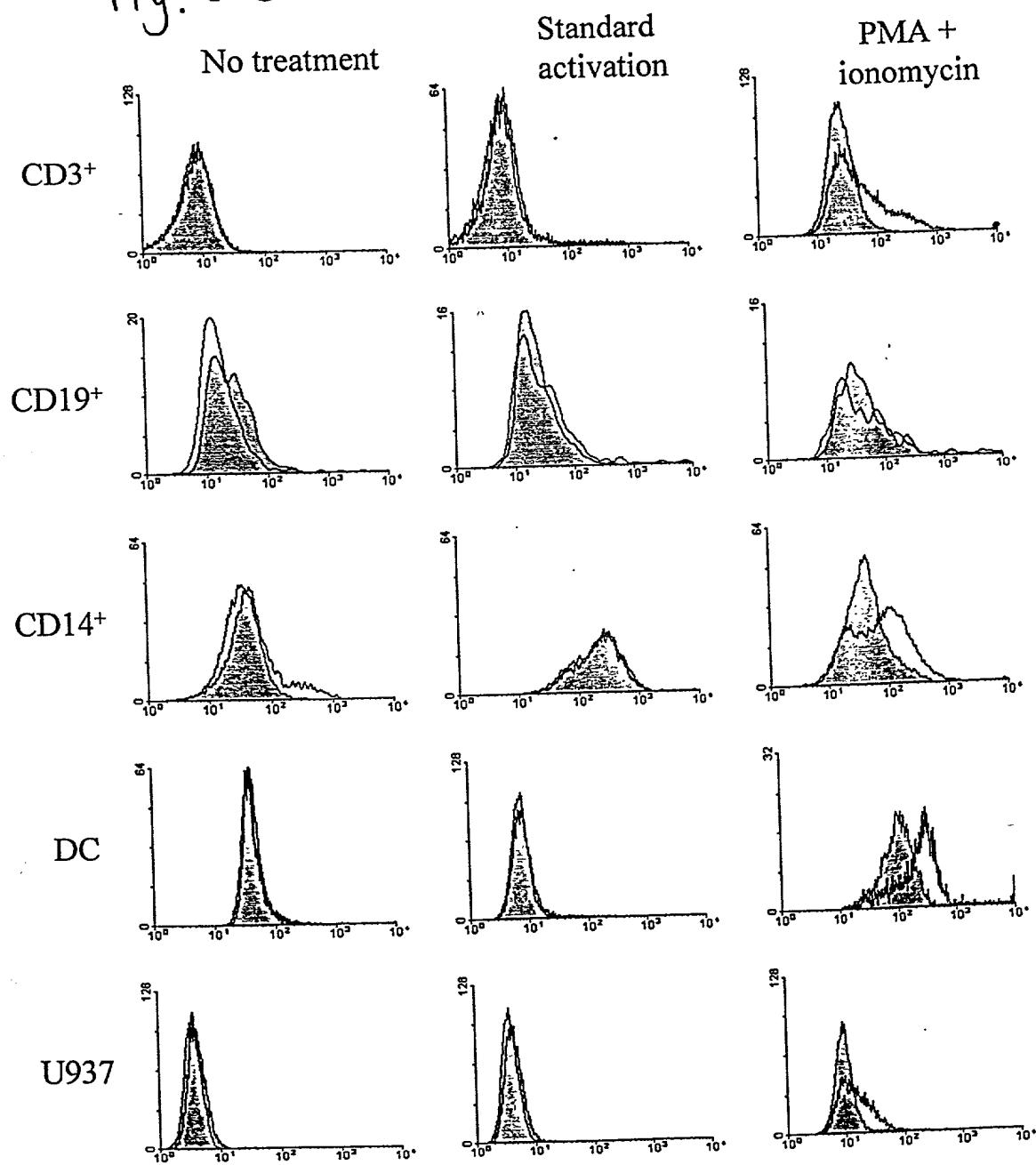


Fig. 7A

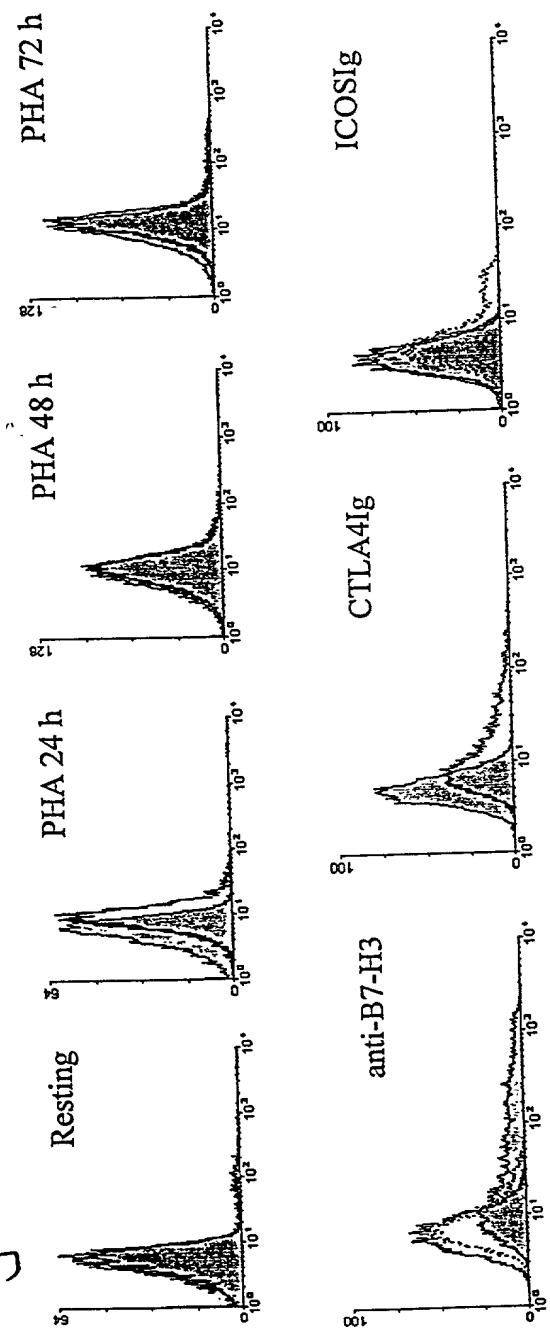


Fig 7B

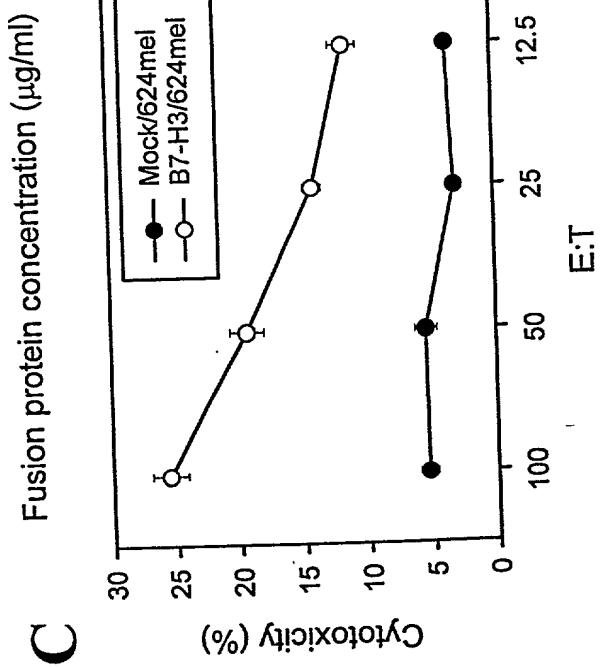
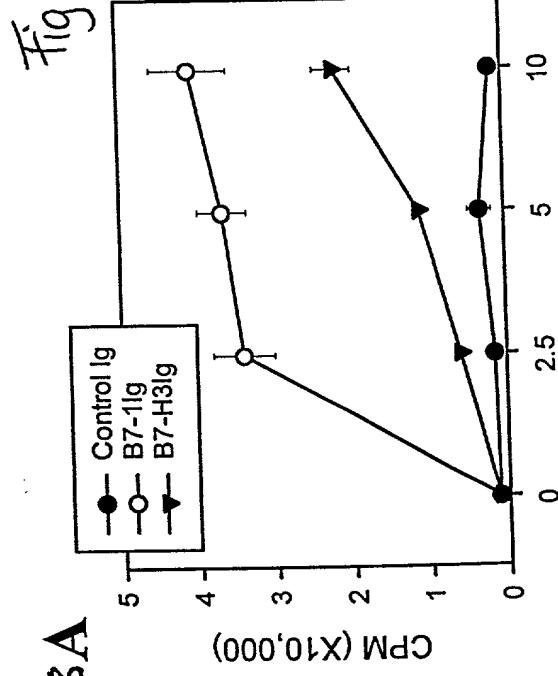
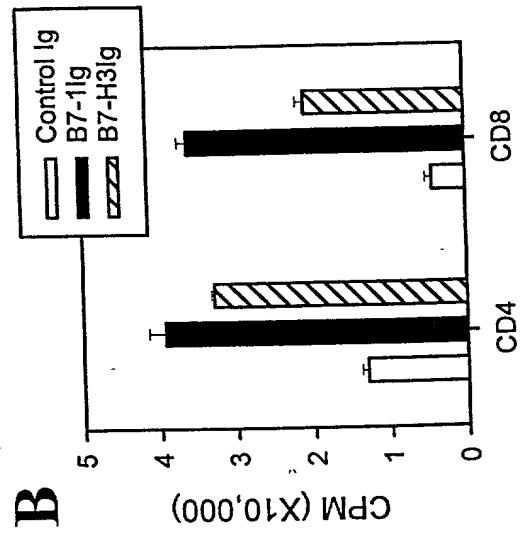


Fig. 9

ATGGCTTCCCTGGGCAGATCCTCTGGAGCATAATTAGCATCATCATTAT
TCTGGCTGGAGCAATTGCACTCATCATTGGCTTGGTATTCAGGGAGACACT
CCATCACAGTCACTACTGTCGCCCTCAGCTGGAACATTGGGGAGGATGGAAT
CCTGAGCTGCACCTTGAAACCTGACATCAAACCTTCTGATATCGTGATACAAT
GGCTGAAGGAAGGTGTTAGGCTTGGTCCATGAGTTCAAAGAAGGCAAAGA
TGAGCTGCGGAGCAGGATGAAATGTTAGGCTTGGTCCATGAGCTGAACTCA
GATCAAGTGATAGTGGCAATGCCCTTGGCTGAAAAACGTGCAACTCA
CAGATGCTGGCACCTACAAATGTTATATCATCACTTCTAAAGGCAAGGGAA
TGCTAACCTTGAGTATAAAACTGGAGCCTTCAGCATGCCGAAGTGAATGTG
GAECTATAATGCCAGCTCAGAGACCTTGCCTGAGCTGAGGCTCCCCGATGGTCC
CCCAGCCCACAGTGGTCTGGCATCCAAAGTTGACCAGGGAGCCAACCTCTC
GGAAGTCTCCAATACCAGCTTGAGCTGAACCTGAGAATGTGACCATGAAG
GTTGTGCTGTGCTCTACAATGTTACGATCAACAACACATACTCCTGTATGAT
TGAAAATGACATTGCCAAAGCAACAGGGGATCAAAGTGACAGAATCGGA
GATCAAAAGGCGGAGTCACCTACAGCTGCTAAACTCAAAGGCTCTGTGT
GTCTCTTCTTGCCATCAGCTGGCACTTCTGCCTCTGCCCTACCT
GATGCTAAAATAA

Fig. 10

MASLGQILFWSIISIIILAGAIALIIGFGISGRHSITVTTVASAGNIGEDGILSCTFEPD
IKLSDIVIQWLKEGVGLVHEFKEGKDELSEQDEMFRGRTAVFADQVIVGNASLR
LKNVQLTDAGTYKCYIITSKGKGNANLEYKTGAFSMPEVNVDYNASSETLRCEA
PRWFPQPTVVWASQVDQGANFSEVSNTSFELNSEVTMKVVSVLYNVTINNTYS
CMIENDIAKATGDIKYTESEIKRRSHLQLLNASKASLCVSSFFAISWALLPLSPYLM
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Fig.

B7-H4	I S G R H I S I T V A S A G N I G E D G - - - - -	L S D I V I O W L K E G - - - - -	I T S K G K - - - - -	I T S F E L S E N N Y T M K V V S Y L Y - - - - -	K V T E S I E I K R R S H L Q L L N S K				
B7-H2	L A D T Q E K E V R A M V G S D V E E - - - - -	L S C A P E G S S R F D I N D V Y Y V Y Q O T S E S K T V V T - - - - -	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T				
B7-H3.2	Q V P E D P V V A L V G T D A T T C C S S P P G F S I A Q L N L I V Q C L L D M T D - - - - -	Q L A V E K O L V E K O L D M T D - - - - -	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T				
B7-H1	V T V P K D L V V V E Y S N M T I E C K P V E K O L D M T D - - - - -	V F N E T A D P Q Q A N S Q N Q S E L V L N E Y L G K E K F D	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T				
B7-2	B7-1 L N F F Q O L L V L A G L S H F C S G V I H V T K E V A T S C G H N - V S V E E A Q T R I Y K E K - - - - -	B7-1 L N F F Q O L L V L A G L S H F C S G V I H V T K E V A T S C G H N - V S V E E A Q T R I Y K E K - - - - -	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T				
*	B7-H4 E L S E Q D E M F R G R A T A V F A D Q Q V I V G N A S L R L K N V Q L T D A G T T N K C Y L I T S K G K - - - - -	B7-H2 E L S E Q D E M F R G R A T A V F A D Q Q V I V G N A S L R L K N V Q L T D A G T T N K C Y L I T S K G K - - - - -	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T				
B7-H2	B7-H3.2 E N - - - - -	B7-H1	B7-2	B7-1	B7-H4 E L S E Q D E M F R G R A T A V F A D Q Q V I V G N A S L R L K N V Q L T D A G T T N K C Y L I T S K G K - - - - -	B7-H2 E L S E Q D E M F R G R A T A V F A D Q Q V I V G N A S L R L K N V Q L T D A G T T N K C Y L I T S K G K - - - - -	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T
*	B7-H4 N V T I H N T Y S C M I E N D I A K A T G D I - - - - -	B7-H2 A R T E P S V N G C I E N P Q N L T V G S Q T G N D I G E R D K I T G Q - - - - -	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T				
B7-H3.2	B7-H1	B7-2	B7-1	B7-H4 N V T I H N T Y S C M I E N D I A K A T G D I - - - - -	B7-H2 A R T E P S V N G C I E N P Q N L T V G S Q T G N D I G E R D K I T G Q - - - - -	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T	
*	B7-H4 N V T I H N T Y S C M I E N D I A K A T G D I - - - - -	B7-H2 A R T E P S V N G C I E N P Q N L T V G S Q T G N D I G E R D K I T G Q - - - - -	I T S Q S L G - - - - -	I T S Q S L G - - - - -	V S T G E K N A A T				

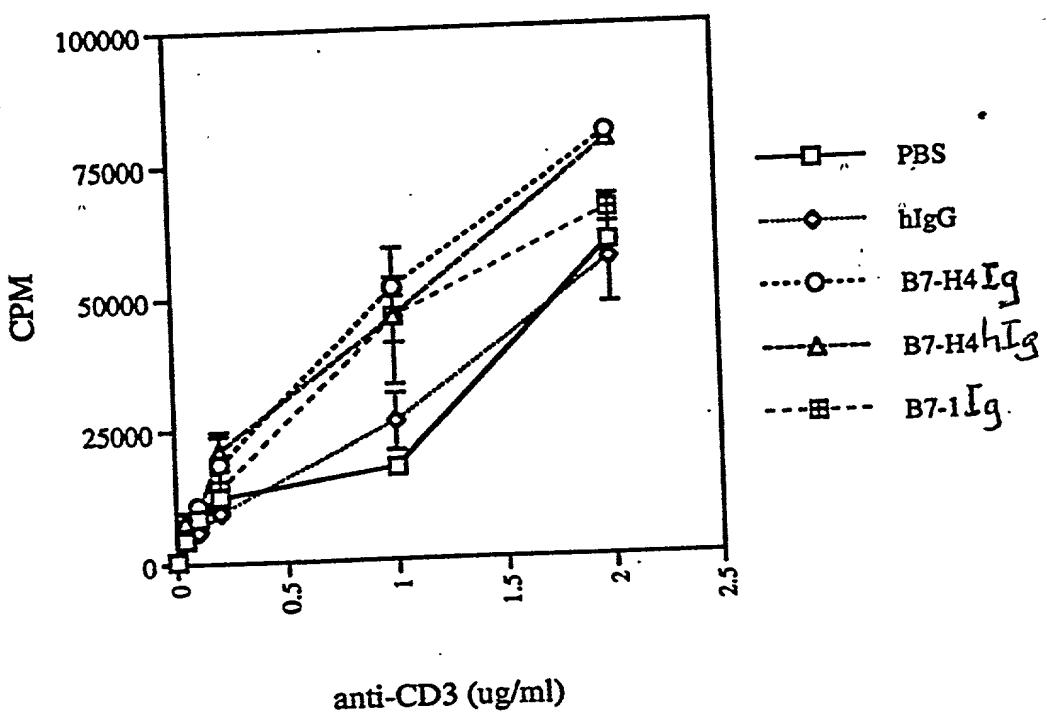


FIG. 12

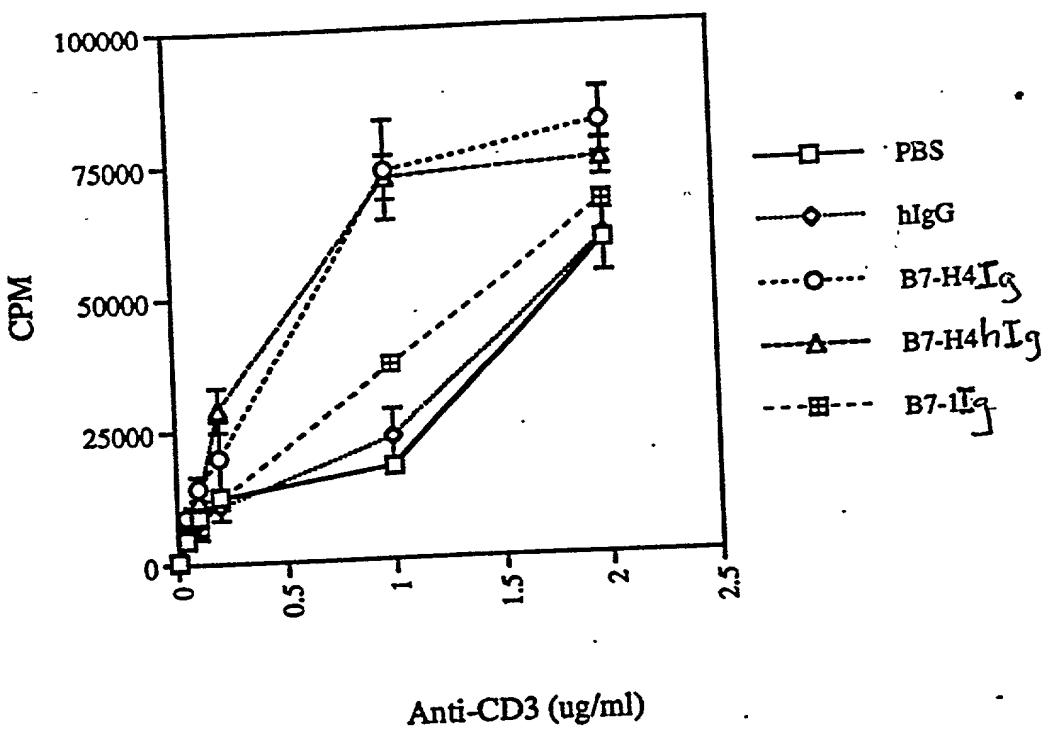


FIG. 13

Fig. 14

